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# **Deployment and Deliberate Crisis Action Planning and Execution Segments (DCAPES)**



**U.S. AIR FORCE**

**HQ USAF/XOXW**

**Maj Jon Gullett**

**HQ USAF/DPPR**

**Lt Col John**

**5 June 2006**



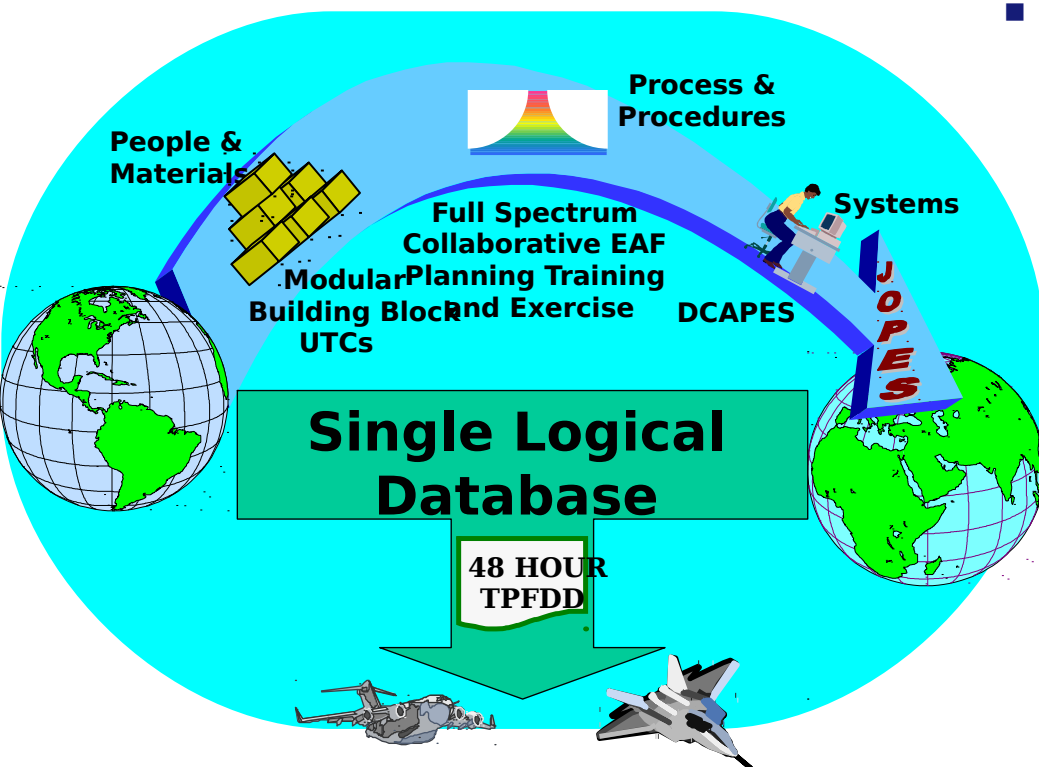
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# Program Overview



## ■ Program Specifics

- GCCS-AF Application
- \$122M ACAT III
- Certified Joint interoperable
- 1<sup>st</sup> Increment fielded Mar 2002

## Objectives

- Replace legacy service planning and execution systems
- Enable rapid OPLAN development
- Support deployment, redeployment, sustainment, mobilization, reconstitution
- DII COE level compliant
- Deliver shared data using interoperable Joint processes with “common look and feel” tools that benefit all echelons



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# ***Functional Features***



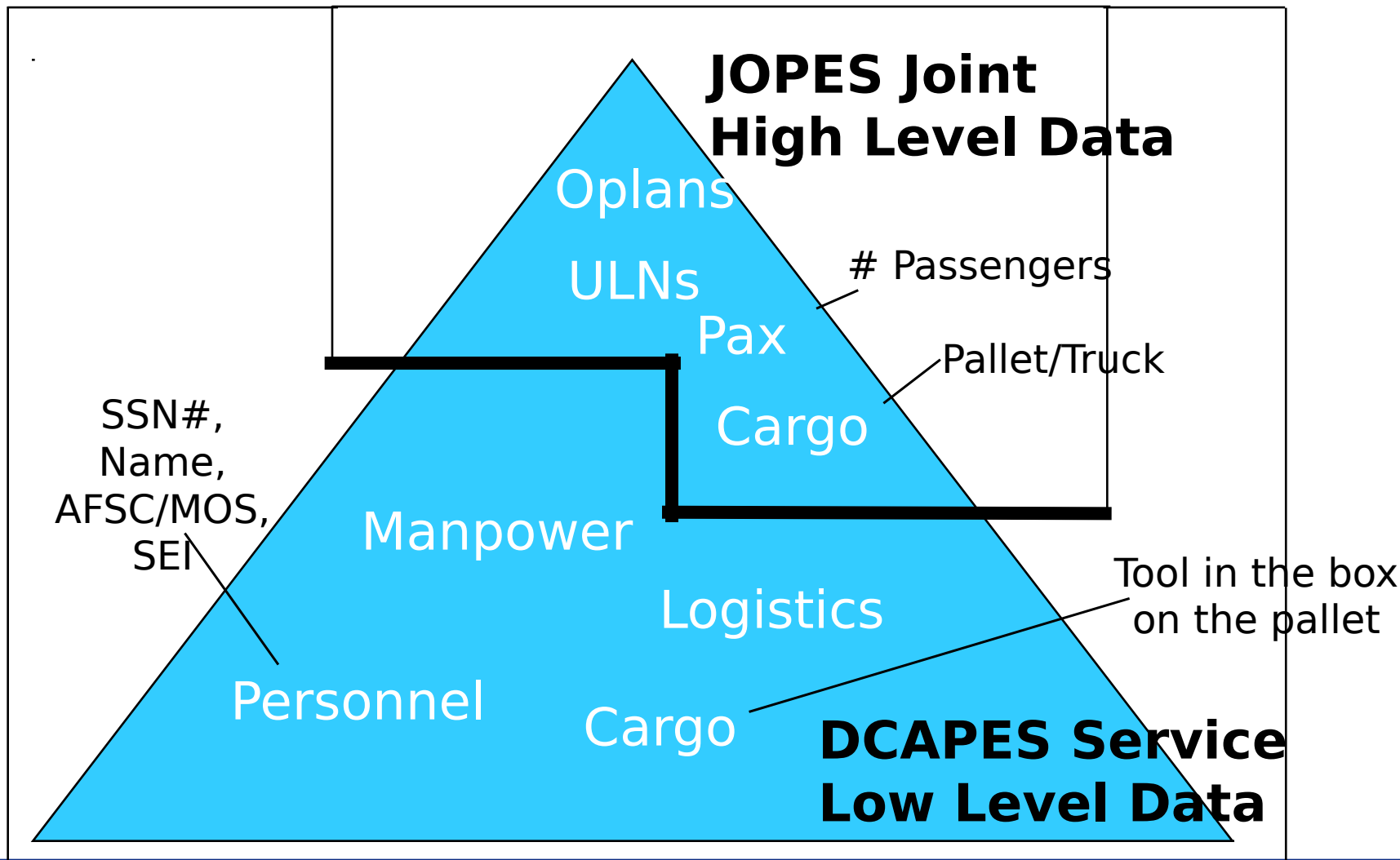
- **Integrates Joint & Service planning/deployment data**
  - **DCAPES does not maintain copies of JOPES data**
  - **DCAPES updates shared JOPES data**
- **Capability to drill down into Service detail data from JOPES**
- **Roll up of Service Level Cargo data to JOPES Joint Level**
- **Roll up of Service Line Level Data (specifics) to JOPES (# PAX)**
- **Dynamic query tool with enhanced performance from JOPES**
- **Manpower and personnel feasibility scenarios**
- **Seamlessly updates Service force packages to the joint library**
- **DCAPES maintains same “look & feel” of JOPES**



# DCAPES Total Asset Visibility



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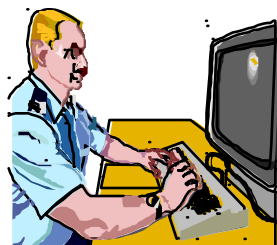
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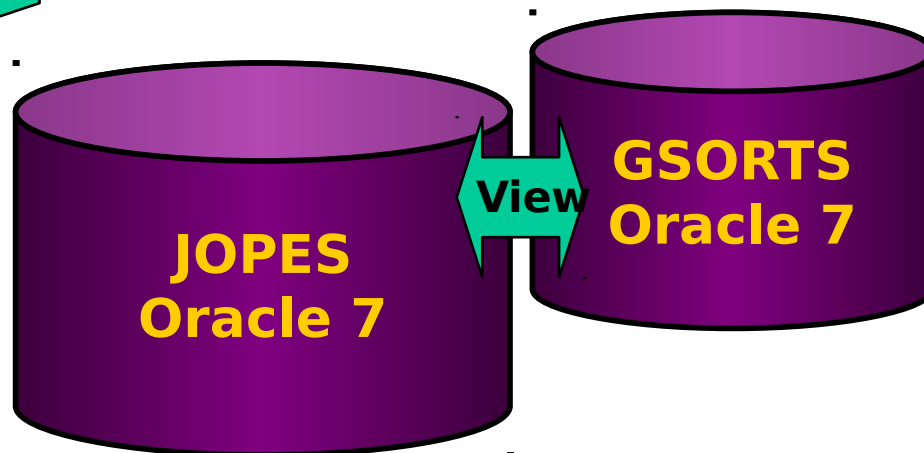
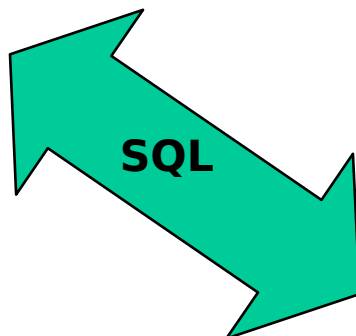
# How a JOPES user sees the data



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JET FVT  
RQT





# How a *DCAPES* user sees the data

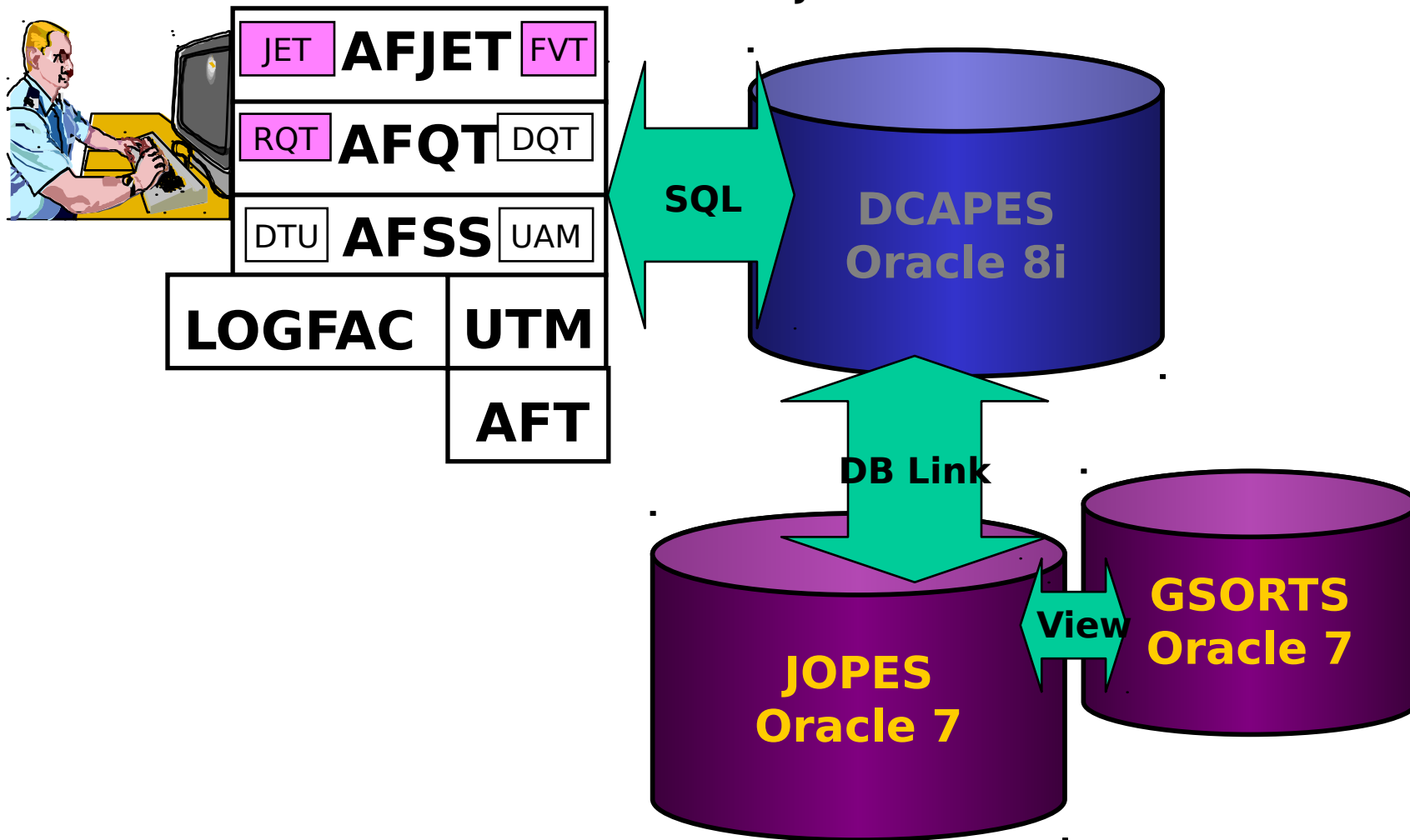


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HQ USAF-Air Component

MAJCOM

UNIT

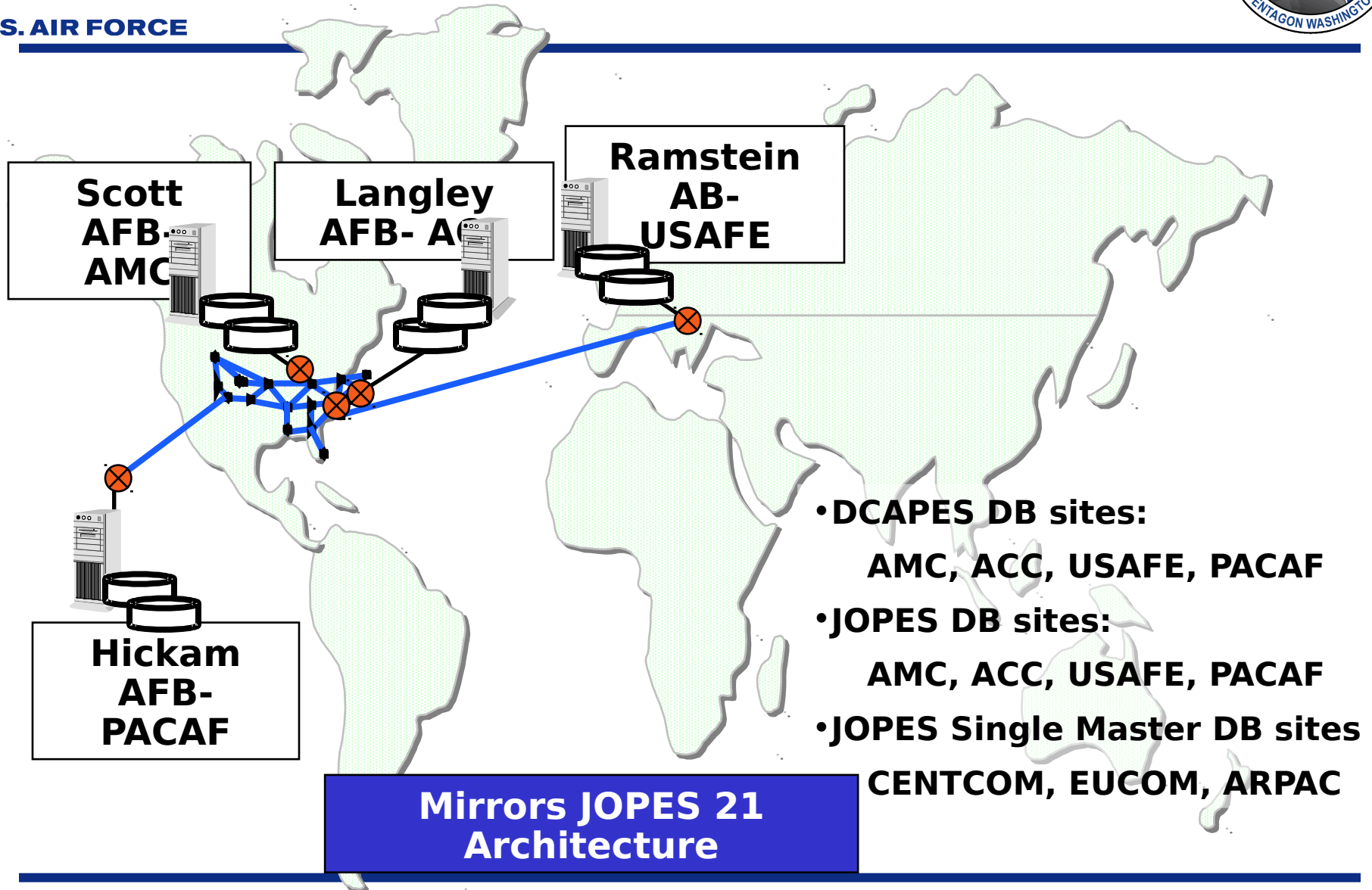




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# Database Topology



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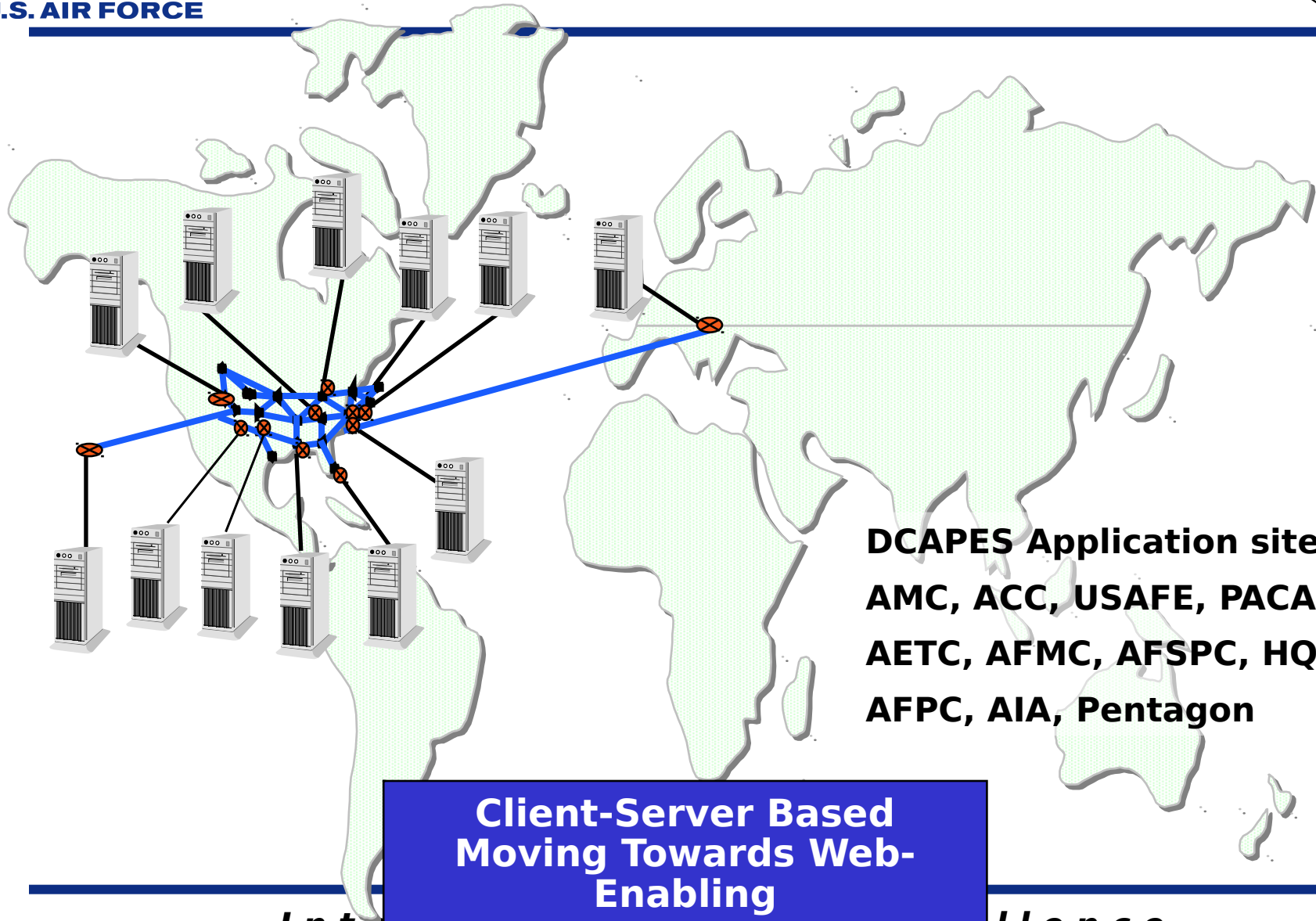




# Application Topology



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**DCAPES Application sites:**  
**AMC, ACC, USAFE, PACAF, AFSOC**  
**AETC, AFMC, AFSPC, HQ AF, AFM**  
**AFPC, AIA, Pentagon**



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# ***Responsibilities for Data***



- **HQ Air Force:**
  - **OPR for Force Accountability**
  
- **Air Force Personnel Center:**
  - **Air Force focal point for questions regarding deployed personnel**
  - **Collects data regarding individual deployments**
  - **Submits DODI 1336.5 data to DMDC**



# Deployment Process - Activities



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- **BUILD PLAN REQUIREMENTS** - type of people/equipment for the specified operation
- **SOURCE PLAN REQUIREMENTS** - Decision on base/wing taskings
- **\*TASK** - Association of a person to a specified operation
- **\*DEPLOY** - Member deploys to support specified operation/exercise
- **\*EMPLOY**- Member arrives at deployed location
- **\*FORWARD DEPLOY** - Member moves to another location
- **\*REDEPLOY** - Member departs deployed location for home
- **\*RETURN** - Member arrives home association with specified operation terminates

*Personnel Accountability Event*

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# Reporting Deployment Process - *Who*



- **BUILD PLAN REQUIREMENTS** - Air Component or MAJCOM
  - **SOURCE PLAN REQUIREMENTS** - Air Expeditionary Force Center
  - **\*TASK** - Unit Commanders, notify member, MPF reports projection
  - **\*DEPLOY** - Base deployment process - MPF reports departure
  - **\*EMPLOY** - Site reception process - PERSCO reports arrival
  - **\*FORWARD DEPLOY** - Site departure process - PERSCO reports forward deployment
  - **\*REDEPLOY** - Site departure process - PERSCO reports departure
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MPF: Military Personnel Flight

PERSCO: Personnel Support for Contingency Operations



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# Data & Availability



- **CLASSIFIED** - Available in DCAPEs
  - Who: Name, SSN, Unit
  - When: Date event started and ended
  - Where: Country/State and Geographical Location
  - Why: Plan Identifier
  - Data is updated and replicated continuously
- **UNCLASSIFIED** - Available in MILPDS
  - Who: Name, SSN, Unit
  - When: Date Event Stated and Ended
  - Where: either "Overseas" or "Conus"
  - Why: "Contingency Deployment"

■ Data is updated daily and sent to DMDC

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weekly



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# ***DCAPES Next Steps***



- **DMDC and AFPC MOA to share DCAPES data in final stages**
- **DCAPES GCCS 4.0 version**
- **Integration of remaining legacy systems**
  - **MANPER-B, WMP, ECSS, ART**
  - **Will provide full accountability, status, and tracking of service forces**
- **Full capability for unit level users**



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# ***DCAPES Demo***



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# ***Discussion***



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# ■ **Back up slides**

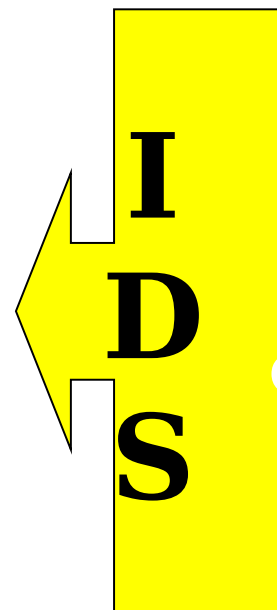
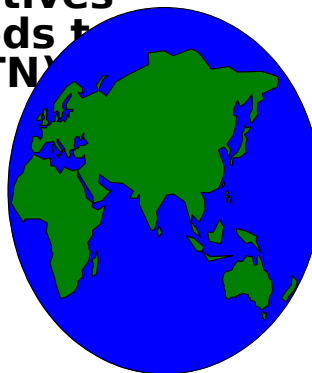


# ***Integrated Deployment System (IDS)***



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- **Mature Deployment Execution System**
  - Web Enabled where appropriate
- **Meets Military Standard Transportation and Movement Procedures (MILSTAMP)**
- **Supports Total Asset and ITV initiatives with electronic commerce data feeds to Global Transportation Network (GTN)**
- **Provides automated aircraft load planning capability**
- **Supports personnel accountability requirements**
- **Provides Unit Deployment Managers (UDMs) with real time electronic access to personnel and equipment data**



**MANPER-E  
DCAPES**

**LOGMOD  
DCAPES**

**CMOS/GATES**

**CALM/AALPS**



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# DCAPES Increment 1 Applications



- **AFJET** - TPFDD Editor (Joint & Service)

*JOPEs data, GSORTS data, USAF Line Level Detail, USAF Item, Increment, Suffix*

- **AFQT** - DCAPES/JOPEs Ad Hoc Query, Analysis & Reporting

*JOPEs data, GSORTS data, Service Line Level Detail, Service Item, Increment, Suffix*

- **UTM** - Unit Type Code Management

*Update Joint TUCHA from approved UTCs in MEFPACK on demand*

- **AFT** - Analysis and Feasibility Tool

*Compare personnel/manpower requirements to resources via scenarios*

- **LOGFAC** - Logistics Feasibility Analysis Capability

*Logistics analysis tool to compute war reserve material requirements*

- **AFSS** - System Services

*User Account Maintenance, Data Transfer Utility to/from external systems, Toggle User Accounts, Toggle External Systems, Purge Data Utility, etc.*



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# ***Deployment Systems Issues/Answers***



## **Deployment Problems**

- systems
  - Unit-centric force tailoring for specific event required
  - Process uses a snapshot in time of JOPES planning data
  - “Air Gapped” planning files uncontrolled; vulnerable intrusion
  - Separate dissimilar systems required to view all data
  - Multiple, separate training courses to master
  - Joint solutions not yet fully operational
- Real-time data feed to/from JOPES with the same look and feel
  - UTC-centric; supports pre-planned capability-based force packaging
  - Provides JOPES interactive specific UTC/ULN/UIC status and detail
  - Stringent access protocols required via roles permissions module
  - Able to query JOPES and Service data simultaneously transparent to user
  - One training course provides JOPES DCAPEs expertise
  - DCAPEs today: fielded world-wide; war proven (used exclusively in OIF)



# All Service Data in DCAPES today



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AFJET: ULN Routing List

FileEditUtilities

Help

USER ID: ffhesper

UNCLASSIFIED

011532ZMAY2003

OPLAN: 08RTD

14 ULNs

COLL. ID: 030501.153244

9 Marked

ULN	Unit Name & UIC ** Force Description	OR **	UTC	S P C V R M C V P	PAX	STONS	I-ORIG-I GEO RLD	I---POE---I MS GEO ALD	I-----POD-----I MS GEO EAD LAD	I---DEST---I MS GEO RDD	S P E S I R F F R
FEFA4	0009 RW	FFDVNO	FFLGE	F 2 A	0	2.5	BAEY	XG BAEY			
FKHBD	0009 RW	FFDVNO	HFR4B	F 2 A	28	46.0	BAEY	XG BAEY			
MG2SP	AAV CO, ASSLT AMPH		2TXAB	M	0	1238.2	HGUH	PG GJKZ	AK TYFR	9999 XX TYFR	
NG5CV	HSP 0500 BEDS M2E		F007U	N	978	2205.0	EZVA	PG YQAZ	AK TYFR	9999 LD GYRK	
NGF6U	FLT HSP ASSIST TEA		F036U	N	4	27.3	EZVA	PG YQAZ	AK TYFR	9999 LD GYRK	
T0010	0099ABSWG0000	FFPT80	3FVBX	F 2 A	286	80.2	RKMF	XG RKMF			
T0021	0001 FW	FFC370	HFAZF	F 2 A	22	2.6	MUHJ	XG MUHJ			B
TG024	AIRBORNE DIVISION		02444	A	13431	31336.1	HCTL	PG TMKH	AK TYFR	9999 XX TYFR	
TG0VN	INFANTRY BN		02VNN	A	745	1005.7	HGUH	PG GJKZ	AK TYFR	9999 XX TYFR	
TG0VP	RIFLE CO, INF BN/M		0GVAP	M	0	0.8	HGUH	PG GJKZ	AK TYFR	9999 XX TYFR	

ULN Details

Edit L3

Edit L4

Edit LLD

Search

Sort

Close

AFJET Command:

14 records read



# Lower Level Data Scenario



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AFJET: ULN General List

File

Edit

Utilities

Help

USER ID: ffhgullj

OPLAN: 08RTD

COLL. ID: 030515.144257

UNCLASSIFIED

151442ZMAY2003

10 ULNs

1 Marked

ULN	Unit Name & UIC Force Description	UTC	ULC	F I C	S V C	P R V	C M P	M A C	PAX	STONS	MS	LAD	S F	P F	E R	Nbr CCC
FEFA4	0009 RW	FFDVNO	FFLGE	ELE	2	F	2	A	1C	0	2.5					1
FKHBD	0009 RW	FFDVNO	HFR4B	TM	2	F	2	A	1C	28	46.0					8
MG2SP	AAV CO, ASSLT AMPHIB BN, 2D MAR	2TXAB	CO	0	M				0	1238.2	AK	9999				6
NG5CV	HSP 0500 BEDS M2E CBTZ HOSPITAL	F007U	HSP	0	N				978	2205.0	AK	9999				10
NGF6U	FLT HSP ASSIST TEAM (TEMP)	F036U	TM	0	N				4	27.3	AK	9999				2
T0010	0099ABSWG0000	FFPT80	3FVBX	SQ	2	F	2	A	1C	286	80.2					8
T0021	0001 FW	FFC370	HFAZF	WG	2	F	2	A	1C	22	2.6				B	2
TG024	AIRBORNE DIVISION AOE	02444	DIV	0	A				13431	31336.1	AK	9999				18
TG0VN	INFANTRY BN	02VNN	BN	0	A				745	1005.7	AK	9999				8
TG0VP	RIFLE CO, INF BN/MPS FIE	0GVAP	HSP	0	M				0	0.8	AK	9999				4

ULN Details

View L3

View L4

View LLD

Search

Sort

Close

AFJET Command:



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# Level 5 “What’s on the pallet”



AFJET: DCAPES Item Level 5 Cargo Editor

File Edit Options Tools Help

USER ID: ffhgullj UNCLASSIFIED SCREEN ID: FOR405

OPLAN: 08RTD UTC: HFR4B ULN: FKHBD DP\_ECH: E1 INCR: 3 9 Rows 151703ZMAY2003

OPLAN	ULN	FIC	UTC	BULK	OVER	OUT	NAT	TOTAL	AUTH	PAX
08RTD	FKHBD	2	HFR4B	10.4	35.6	0.0	0.0	46.0	28	28

Make STD

LEVEL 4 INFO:

DP_ECH	INCR	INCR_TP	CC	NOMENCLATURE	VENTING	MVMT_PRI
--------	------	---------	----	--------------	---------	----------

ITEM	NSN	TP	NOMENCLATURE	CCC	ASC	LGH	WID	HGT	LBS	FAC	CC	QTY	HAZ	SHI	TK
1	1670008204896CT	P	463L PALLET, H	J3D		88	108	3	290	22B100	A	1	N		N
2	1670009694103CT	P	TOP NET, HCU-1	J3C		88	108	1	21	22B100	A	1	N		N
3	1670009962780CT	P	SIDE NET, HCU-	J3C		88	108	1	22	22B100	A	2	N		N
4	5510002206226	P	DUNNAGE	J2D		86	4	4	25	22B100	A	3	N		N
5	1560ND014236W	P	INTAKE PLUG	J3B		3	3	2	200	22B100	C	4	N		N
6	1720ND014992W	P	POGO	J3B		65	16	16	35	22B100	A	4	N		N
7	8145008721285	P	APG MOBILITY	J3B		67	33	67	1130	22B100	C	1	N		N
8	8145008721285	P	U2 SPEC MOBILI	J3D		67	33	67	2747	22B100	C	1	N		N

CCC Lookup

Apply Duplicate Delete View L4 View L6 Clear Close

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# Level 6 "What's in the box on the pallet"

AFJET: DCAPEX Suffix Level 6 Cargo Editor

File Edit Options Tools Help

USER ID: ffhgullj UNCLASSIFIED SCREEN ID: FOR406

OPLAN: 08RTD UTC: HFR4B ULN: FKHBD P N DP\_ECH: E1 INCR: 3 ITEM: 8 20 Rows 151705ZMAY2003

OPLAN	ULN	FIC	UTC	BULK	OVER	OUT	NAT	TOTAL	AUTH	PAX
08RTD	FKHBD	2	HFR4B	10.4	35.6	0.0	0.0	46.0	28	28

Make STD

LEVEL 5 INFO:

DP_ECH	INCR	ITEM	INCR_TP	CC	NOMENCLATURE	NSN
E1	3	8	P	C	U2 SPEC MOBILI	8145008721285

SFX	NSN	TP	NOMENCLATURE	ASC	FAC	QTY	HAZ	SHI	TK
1	6625ND000990W	P	SHOT BAGS		22B100	4	N		N
18	935004699412	P	3 PHASE 400HZ PWR		22B100	1	N		N
19	5935010123066	P	EXT CORD 400HZ 115		22B100	4	N		N
2	1730ND013917W	P	OXYGEN PURGE KIT		22B100	1	N		N
23	5140003883416	P	AGCS CTK		22B100	5	N		N
26	4244000022946	P	EAR DEFENDERS		22B100	10	N		N
28	5140000388116	P	JETS CTK		22B100	1	N		N
29	1560ND001958W	P	HYDRO JUMPER		22B100	1	N		N

26 4244000022946 P EAR DEFENDERS 22B100 10 N

Hazard Code Lookup

Apply Duplicate Delete View L4 View L5 Clear Close

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# Level 6 “What personnel are accompanying the pallet”



AFJET: Manpower Line Level Detail Editor

File Edit Option Reference Output Reports Tools Help

USER ID: ffjcxoxw UNCLASSIFIED SCREEN ID: FOR012

FMID OFF Enl Civ Total Cent-Site 28 Rows 08RTD Status: Avail 1517232MAY2003

1 Marked Display MISCAP

OPLAN	FRN	UTC	Force	Description	UIC	PAS	Dest	CSC	RDD	FIC	PAX	Auth	SSF	Proj	OGeo	CC
08RTD	FKHBD	HFR4B	SRE	U 2 PHASE INSP	FFDVNO	BD1CFDVN				2	28	28			BAEY	A

08RTD FKHBD HFR4B SRE U 2 PHASE INSP FFDVNO BD1CFDVN 2 28 28 BAEY A

FRN	F/I	LNR	FAC	AFSC	Req SEI	SAR	PRP	Mil Grd	Civ Grd	AEFI	MAC	Tasked PAS	Dest	CSC	RDD	ETL	Attached PAS	Dep Ech	Line	Remarks
FKHBD		001	22C1	2S051							1C	BD1CFDVN								
FKHBD		002	2313	2A773							1C	BD1CFDVN								
FKHBD		003	2317	2A752							1C	BD1CFDVN								
FKHBD		004	2331	2A353J							1C	BD1CFDVN								
FKHBD		005	2331	2A373J							1C	BD1CFDVN								
FKHBD		006	2331	2A390							1C	BD1CFDVN								
FKHBD		007	2331	2A390							1C	BD1CFDVN								
FKHBD		008	2332	2A654							1C	BD1CFDVN								

FKHBD 001 22C1 2S051 1C BD1CFDVN

Requery Source ULN DRMD Rept Levy Notif Levy Status Rotations ULN Detail Replace Dtl

Change Mode Apply Clear List Clear Fields Delete Dtl Remarks Create Frag Close



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# ***Recommendation***



- **Recommend supporting continued TRANSCOM efforts for data standardization and interoperability among systems**
- **Allow for service flexibility at unit level, while ensuring joint standards & uniformity within Joint process via application able to view JOPES requirements and service detail**
- **Promote DCAVES as the JOPES feeder able to meet intent of JDS CRD requirements today**
  - **Mandate interoperability with services planning systems**

**DCAVES already has capability for all Services and Joint applicability**



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# ***DCAPES Objectives for Combatant Commanders Planning and Execution Environment***



**Provide accurate Component data to the Combatant CC**

- **Maintain synchronization with Joint OPLAN and TPFDD especially during time critical CAP phase**
- **Maintain synchronization between unit-level manpower/personnel and unit-level logistics data**
- **Use Joint reference data from TUCHA and GSORTS before Service unique reference data**
- **Ensure that all Service manpower and logistics data are consistent with Joint business rules**
- **Error check data as it arrives from external interfaces**



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# ***DCAPES Objectives for Combatant Commanders Planning and Execution Environment***



- **Provide Component data in advance of the 3-day window after issuing an Alert Order**
- **Standardized MAJCOM planning and execution process across operations, logistics, manpower, and personnel functional areas to meet Joint processes**
- **Simultaneously solicit inputs from supporting units worldwide through synchronized Service Line Level Detail (LLD)**
- **Use permissions & privileges tools to restrict planning data to those with a need to know**
- **Provide a planning environment that is less burdensome on manpower and more flexible to restructuring of the OPLAN by the Combatant CC**



# Needs of the Combatant/JTF Commanders'



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- Combatant/JTF Commander's require visibility of what is being brought to the fight
  - What's planned; What's executed; Sometimes what's on the box on the pallet, e.g. munitions
  - Unable to get that view of data today
- Joint Command and Control Capability (JC2) Operational Requirements Document (ORD) Requirement

Information integrity (GIG transport):

I-III: THRESHOLD: 99.99%. OBJECTIVE: 99.999%

4.1.1.3 Conduct Crisis Action/Deliberate Planning: Shared shall provide capability to rapidly access, display, aggregate, synchronize, validate, analyze, and archive shared force-level planning data (e.g., JOPES, GTN). System shall provide capability to drill down to unit (mission), Service, transportation data, and other applicable planning data.

Excerpt  
from JDS  
CRD

***DCAPES can bridge today's systems  
for JC2 tomorrow***

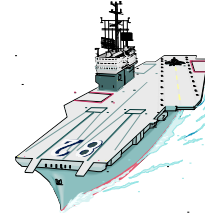


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# ***Joint Deployment Goal***



- **Goals: Faster/more efficient deployment to the AOR**  
**Combatant/JTF Commander visibility of forces**
- **Who deploys fast/efficient today:**
  - **Navy - CVBGs**
  - **Army - Airborne Forces**
  - **Marines - MEF**
  - **Air Force - AEF**
- **Why is this so?**
  - **Navy - self deployers**
  - **Army - pre-packed e.g. 82 Division**
  - **Marines - pre-positioned afloat**
  - **Air Force - capabilities based UTCs pre-planned/organized based on model unit's UTC**





# ***What DCAPES could do for Joint Deployment Improvement today***



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- **“Past decisions that supported migration to single, joint systems were well-intended, but not well-informed”**
  - **Joint Staff/J8 (Lt Gen Cartwright)**
- **Services’ forces deploy to an AOR to facilitate Joint war fighters**
  - **JTF commanders need an interactive view of what forces the services are deploying (in relation to the JOPES requirement)**
- **DCAPES-TCAIMS-LOGMOD could allow Services flexibility at the unit level for service specific process continuation, while providing a Joint view of the data**
  - **Error checking for external interfaces and coded-in Joint rules**
- **DCAPES as a Joint solution could exist at echelons above unit**
  - **Would support the JTF/CC’s requirements utilizing interoperable/standardized service data view (level 8) linked directly to the JOPES requirement**

**Capabilities based UTCs provide rapid deployment \*Interactive IT enables the Process**

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# How a JFRG-TCAIMS User sees the data

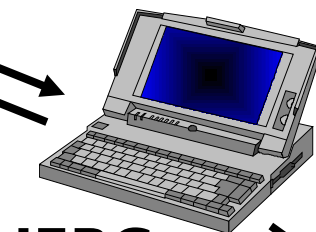
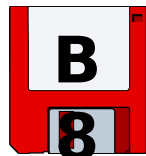
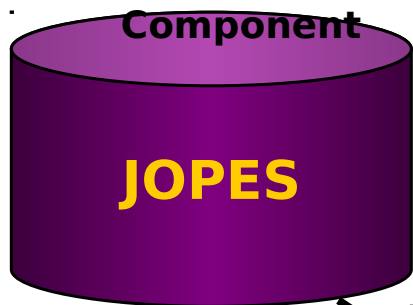


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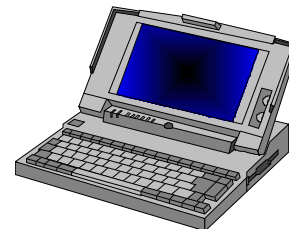
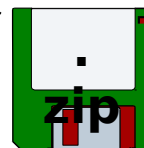
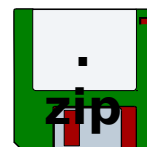
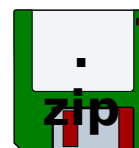
JS-Combatant Commander-  
Air/Ground/Naval  
Component

MAJCOM

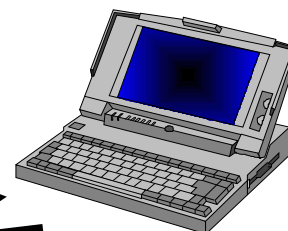
UNIT



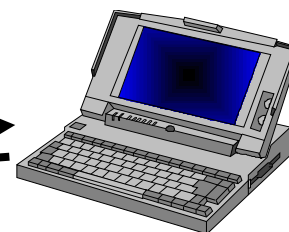
JFRG



TCAIMS



TCAIMS



TCAIMS

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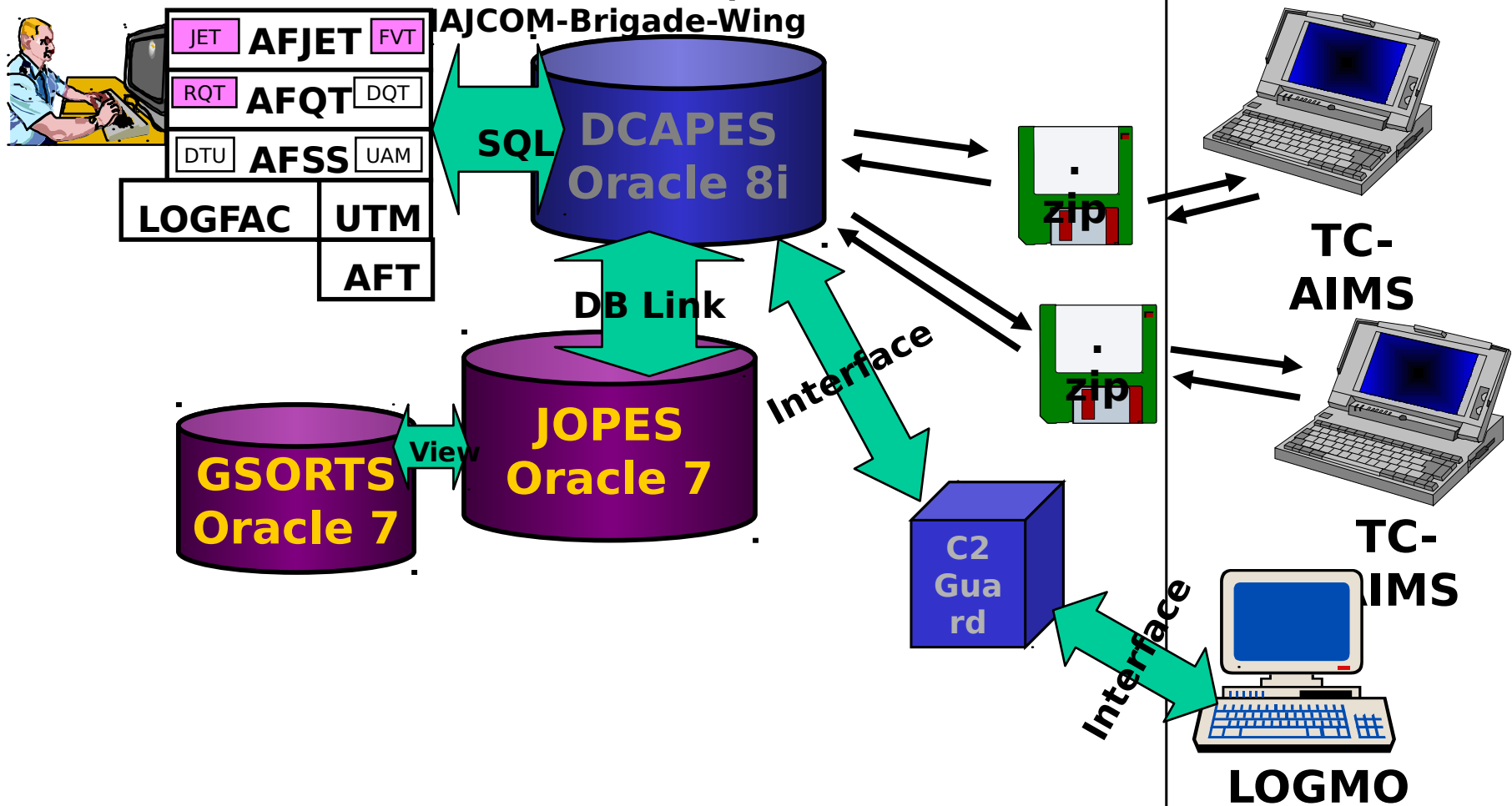


# How DCAVES-TCAIMS-LOGMOD Users could see the data



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JS-Combatant Commander-  
Air/Ground/Naval Component -

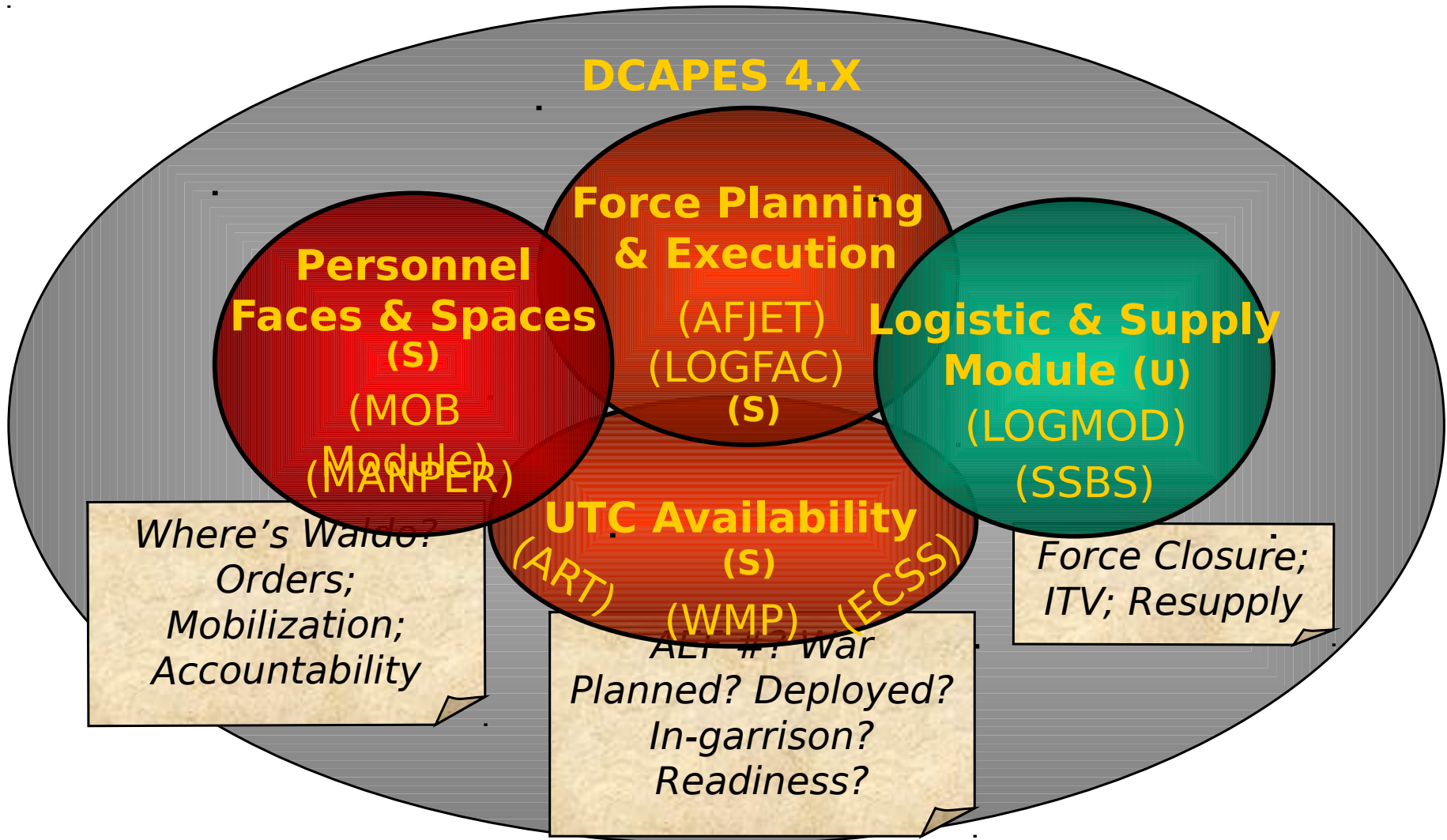


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# Goal: Integrated War planning and Execution



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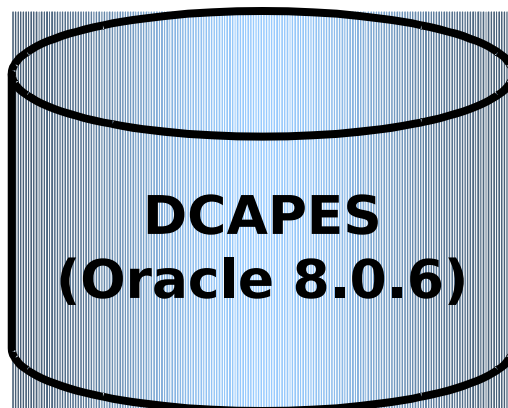


# Inside the DCAPES Database



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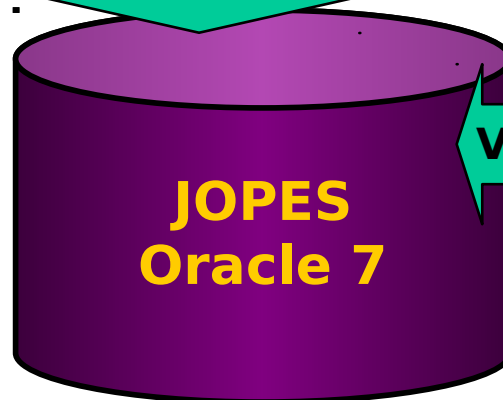
Service Line Level Detail  
Service Item, Increment, Suffix  
UTC Item, Increment, Suffix  
UTC Line Level Detail  
Manpower Authorizations  
Personnel Accounting  
Symbol  
Wartime Aircraft Activity



User Roles & Permissions  
Service Reference Data  
SEI, AFSC, FAC  
MANPER Scenarios  
War Mobilization Plan  
MDS Planning Factors  
War Consumable

DB Link

OPLANs  
Permissions  
ULNs, CINs, PINs  
Cargo Level 3&4  
Joint Standard Reference  
GEO, TUCHA, TUDET  
Scheduling & Movement  
View of GSORTS



Factors



**GSORTS**  
**Oracle 7**

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